

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12/29/2003

Introduction to the Process Transparency Document

(For a full description of the process for assessing water quality in Minnesota under the Clean Water Act, see “Guidance Manual for Assessing the Quality of Minnesota Surface Waters”, MPCA, January, 2004. This document is available from the MPCA or to read and download from the MPCA Web site at: <http://www.pca.state.mn.us/publications/manuals/tmdl-guidancemanual04.pdf>)

In general, the assessment process compares monitoring data with applicable water quality standards by stream reach. The Professional Judgment Group is composed of assessment staff who know how the preliminary assessments were done, and monitoring staff who advise on the correct interpretation of monitoring data collected by them or their organization.

The stream assessment Process Transparency Document is designed to provide both a template for considering preliminary assessments at the major river basin Professional Judgment Group (PJG) meetings, and also to provide an enduring record of any special factors discussed or involved in making an assessment on a stream reach.

This document builds on two technical reports, a Data Summary Report and a Preliminary Assessment Report, which are produced in an automated manner using the assessment methodology described in the guidance document referenced above. Often, the application of the methodology produces an assessment that is reviewed without additional comment. When additional factors must be considered, or additional review is performed, or recommendations are made, these are noted on the Process Transparency Document, along with significant comments that reinforce or pertain to the assessment for the reach.

Use the “find” capability when using this document in electronic format to find a particular AUID or stream name. The order of the notes varies according to how they were used in the PJG meeting.

Abbreviation Key:

AUID	Assessment Unit Identification Code – incorporates the 8-digit HUC (ie. 07020001 517)
NS	Non-supporting
FS	Fully-supporting
PS	Partially-supporting
NA	Not Assessed
IAR	Integrated Assessment Reporting

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010101-501 012 31.1 Pigeon R South Fowl Lk to Pigeon Bay
Aquatic life—preliminary assessment FS Final assessment FS
AQL assessment quality (Excellent, good, fair, poor) POOR
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed **Very little human influence, State Park area**
G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NS
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) Y Which pollutants Mercury
2004 Impairment listing (Y/N) Y Which pollutants Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments **Only 9 observations of unionized ammonia; USGS flow gaging station at site would enhance the value of future WQ monitoring .**

AUID Seg Miles Reach Name Reach Description
04010101-502 015 13.1 Brule R Greenwood R to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS
AQL assessment quality (Excellent, good, fair, poor) GOOD
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data **report shows 5 datapoints for lead, but two were measured within 30 days, so inadequate number of datapoints for assessment according to assessment methodology.**
Aquatic recreation use—preliminary assessment FS Final assessment FS
AR assessment quality (Excellent, good, fair, poor) FAIR
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants Keep on list for mercury
2004 Impairment listing (Y/N) Y Which pollutants Mercury, in water column
Delisting status (if applicable) _____
IAR category 5
Additional Comments **One of the most pristine streams on the North Shore. Jesse A: it appears that the North Shore Load Study results at this site were not included in the dataset, but they would not change the assessment anyway.**

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010101-590 **027** **14.13** **Cascade R** **No Br Cascade R to Lk Superior**

Aquatic life—preliminary assessment FS Final assessment NA

AQL assessment quality (Excellent, good, fair, poor) _____

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed

G. Additional data **Jesse had summarized data collected by EPA in 1998. Raw data is not yet available.**

Aquatic recreation use—preliminary assessment NA Final assessment NA

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NA _____

1998 TMDL listing (Y/N) N Which pollutants _____

2002 TMDL listing (Y/N) N Which pollutants _____

2004 Impairment listing(Y/N) N Which pollutants _____

Delisting status (if applicable) _____

IAR category 3A _____

Additional Comments **Only 9 observations of un-ionized ammonia. Don't know enough about this watershed's characteristics and stressors to assess with this small dataset.**

AUID Seg Miles Reach Name Reach Description
04010101-504(retired) **030** **8.1** **Poplar R** **Mistletoe Cr to Lk Superior**

**** this reach split at the top of the escarpment, or lake bluff, recognizing that this natural feature creates a distinction in degree of water quality stressors. *****

AUID Reach Name Reach Description
04010101-612 **Poplar R** **Mistletoe Cr to Escarpment**

Aquatic life—preliminary assessment PS Final assessment FS

AQL assessment quality (Excellent, good, fair, poor) _____

Factors used, please describe

A. Timing of exceedances **dataset from load monitoring design that targets events received additional analysis to reflect basis for turbidity standard which assumes regular periodic sampling.**

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed

G. Additional data Jesse had summary of 1998 EPA data, raw data not yet available

Aquatic recreation use—preliminary assessment FS Final assessment NA

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NS _____

1998 TMDL listing (Y/N) Y Which pollutants Mercury _____

2002 TMDL listing (Y/N) Y Which pollutants Mercury _____

2004 Impairment listing(Y/N) Y Which pollutants **Mercury, fish tissue and water column.**

Delisting status (if applicable) _____

IAR category 5 _____

Additional Comments **Escarpment is downstream of S001-753 station, which is on this AU. Special water column mercury sampling showed exceedances at both stable and high flows.**

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Reach Name Reach Description
04010101-613 Poplar R Escarpment to Lk Superior
Aquatic life—preliminary assessment PS Final assessment NS based on Turbidity
AQL assessment quality (Excellent, good, fair, poor) Good
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions steep slopes exacerbate turbidity from soil disturbances
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed Increase in de-vegetation and soil disturbance for ski and residential development
G. Additional data **1998 EPA raw data not yet available**
Aquatic recreation use—preliminary assessment FS Final assessment FS
AR assessment quality (Excellent, good, fair, poor) FAIR
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants Mercury
2004 Impairment listing(Y/N) Y Which pollutants Mercury, turbidity
Delisting status (if applicable) _____
IAR category 5
Additional Comments Summary of 1998 EPA data shows ave. turbidity of 16.69, standard is 10. Turbidity is result of natural topography exacerbated by soil-disturbing land use. Special mercury sampling showed exceedances at both sites and in both base and high flow. North Shore Loading dataset is from an event-targeted design. The dataset received additional analysis to reflect basis for turbidity standard which assumes regular periodic sampling.

AUID Seg Miles Reach Name Reach Description
04010101-508 050 12.1 Baptism R West Br Baptism R to Lk Superior
Aquatic life—preliminary assessment FS Final assessment FS
AQL assessment quality (Excellent, good, fair, poor) FAIR
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed Little influence, State Park area
G. Additional data Summary of 1998 EPA data shows low turbidity, mean=0.86.
Aquatic recreation use—preliminary assessment PS Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment listing(Y/N) N Which pollutants _____
Delisting status (if applicable) _____
IAR category 2
Additional Comments _____

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010102-504 **012** **23.5** **Knife R** **Headwaters to Lk Superior**
Aquatic life—preliminary assessment NS Final assessment NS **Based on turbidity**
AQL assessment quality (Excellent, good, fair, poor) **GOOD**
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions **Some natural conditions affect turbidity**
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed **Some land use conditions affect turbidity**
G. Additional data _____
Aquatic recreation use—preliminary assessment **FS** Final assessment **FS**
AR assessment quality (Excellent, good, fair, poor) **GOOD**
Fish consumption use **NS**
1998 TMDL listing (Y/N) **Y** Which pollutants **Mercury, turbidity**
2002 TMDL listing (Y/N) **Y** Which pollutants **Mercury, turbidity, pH**
2004 Impairment listing(Y/N) **Y** Which pollutants **Turbidity, Mercury, pH**
Delisting status (if applicable) _____
IAR category **5**
Additional Comments **There is a TMDL underway for turbidity. Even before the TMDL, a number of conservations efforts were already in implementation. Historic logging left lasting impact because of the soil types in the watershed. Also, compared to N.S. tribs farther north, there are fewer lakes in the headwaters to moderate flow and sediment load.**

AUID Seg Miles Reach Name Reach Description
04010102-547 **013** **17.8** **Big Sucker Cr** **1B2A3B Use Class Boundary to Lk Superior**
Aquatic life—preliminary assessment NS Final assessment NA
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed **Rapid rate of development; small flashy watershed with high # of small rural homesteads, “urban fringe”**
G. Additional data *There may also be temperature data, raw data not readily available.*
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use **NA**
1998 TMDL listing (Y/N) **N** Which pollutants _____
2002 TMDL listing (Y/N) **N** Which pollutants _____
2004 Impairment listing(Y/N) **N** Which pollutants
Delisting status (if applicable) _____
IAR category _____
Additional Comments **Assessment dataset is combination of Milestones and No. Shore Loading Study. North Shore Loading dataset is from an event-targeted design. Dataset received additional analysis to reflect basis for turbidity standard which assumes regular periodic sampling. With this analysis, datapoints were inadequate for making a conclusive assessment.**

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010102-506 014 11.87 French R. Headwaters to Lk Superior
Aquatic life—preliminary assessment NS Final assessment NS_for turbidity
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____

G. Additional data _____
Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment listing(Y/N) Y Which pollutants Turbidity
Delisting status (if applicable) _____
IAR category 5

Additional Comments **North Shore Loading dataset is from an event-targeted design. Dataset received additional analysis to reflect basis for turbidity standard which assumes regular periodic sampling.**

AUID Seg Miles Reach Name Reach Description
04010102-508 102 5.9 Talmadge R Headwaters to Lk Superior
Aquatic life—preliminary assessment NS Final assessment NS_for turbidity
AQL assessment quality (Excellent, good, fair, poor) _____
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions Very low flows; very flashy flows
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed Nearby resort closed down some years ago
G. Additional data Summary of 1998 EPA data shows high TSS, raw data not yet available.
Aquatic recreation use—preliminary assessment _____ Final assessment _____
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) Y Which pollutants Low DO
2002 TMDL listing (Y/N) Y Which pollutants stay on list for low DO
2004 Impairment listing(Y/N) Y Which pollutants Low DO, turbidity
Delisting status (if applicable) additional monitoring performed, delisting review underway for DO.
IAR category 5

Additional Comments: **North Shore Loading dataset is from an event-targeted design. Dataset received additional analysis to reflect basis for turbidity standard which assumes regular periodic sampling.**

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010102-548 **015*** **Lester R** **Headwaters to Class 1B, 2A,3B portion of old seg 015**
1998 TMDL listing (Y/N) Y Which pollutants Mercury, turbidity
2002 TMDL listing (Y/N) Y Which pollutants Keep on list for mercury , turbidity
2004 Impairment listing(Y/N) Y Which pollutants Keep on list for mercury.
Delisting status (if applicable) No sampling results for the -548 portion of -015, so this reach will no longer be listed for turbidity 11-24-03. IAR category 5
Additional Comments This upstream portion of old -015 reach may not have the same turbidity problems as the downstream reach.

AUID Seg Miles Reach Name Reach Description
04010202-501 **001** **17.7** **Cloquet R** **Us-kab-wan-ka R to St.Louis River**
Aquatic life—preliminary assessment NS **Final assessment** FS
AQL assessment quality (Excellent, good, fair, poor) GOOD
Factors used, please describe
A. Timing of exceedances WLSSD Metals data suggesting non-support was collected before use of clean metals techniques
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment FS Final assessment FS
AR assessment quality (Excellent, good, fair, poor) GOOD
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment listing(Y/N) N Which pollutants _____
IAR category 2

AUID Seg Miles Reach Name Reach Description
04010201-511 **031** **19.1** **St.Louis R** **Embarrass R to Two R**
Aquatic life—preliminary assessment FS Final assessment FS
AQL assessment quality (Excellent, good, fair, poor) GOOD
Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed _____
G. Additional data _____
Aquatic recreation use—preliminary assessment PS Final assessment FS
AR assessment quality (Excellent, good, fair, poor) FAIR
Fish consumption use NS
1998 TMDL listing (Y/N) Y Which pollutants Mercury
2002 TMDL listing (Y/N) Y Which pollutants Mercury
2004 Impairment listing(Y/N) Y Which pollutants Mercury
Delisting status (if applicable) _____
IAR category 5
Additional Comments East Two R (minor watershed in this reach drainage area) “scored” highest in potential impact in LS Basin land use analysis.

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description

04010201-517 511 6.88 St.Louis R Pine R to Knife Dam

Aquatic life—preliminary assessment NS Final assessment FS

AQL assessment quality (Excellent, good, fair, poor) GOOD

Factors used, please describe

A. Timing of exceedances WLSSD Metals data suggesting non-support was collected before use of clean metals techniques

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed

G. Additional data _____

Aquatic recreation use—preliminary assessment FS Final assessment FS

AR assessment quality (Excellent, good, fair, poor) GOOD

Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Mercury

2002 TMDL listing (Y/N) Y Which pollutants Mercury

2004 Impairment listing(Y/N) Y Which pollutants Mercury

Delisting status (if applicable) _____

IAR category 5

Additional Comments _____

AUID Seg Miles Reach Name Reach Description

04010201-516 311 1.6 St.Louis R Potlatch dam to Scanlon Dam

Aquatic life—preliminary assessment NS Final assessment FS

AQL assessment quality (Excellent, good, fair, poor) GOOD

Factors used, please describe

A. Timing of exceedances WLSSD Metals data suggesting non-support was collected before use of clean metals techniques

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed

G. Additional data _____

Aquatic recreation use—preliminary assessment FS Final assessment FS

AR assessment quality (Excellent, good, fair, poor) FAIR

Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Mercury

2002 TMDL listing (Y/N) Y Which pollutants Mercury

2004 Impairment listing(Y/N) Y Which pollutants Mercury

Delisting status (if applicable) _____

IAR category 5

Additional Comments _____

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010201-515 **211** **2.84** **St.Louis R** **Scanlon Dam to Thompson Reservoir**

Aquatic life—preliminary assessment NS Final assessment FS

AQL assessment quality (Excellent, good, fair, poor) GOOD

Factors used, please describe

A. Timing of exceedances WLSSD Metals data suggesting non-support was collected before use of clean metals techniques

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data _____

Aquatic recreation use—preliminary assessment FS Final assessment FS

AR assessment quality (Excellent, good, fair, poor) GOOD

Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Mercury

2002 TMDL listing (Y/N) Y Which pollutants Mercury

2004 Impairment listing(Y/N) Y Which pollutants Mercury

Delisting status (if applicable) _____

IAR category 5

Additional Comments _____

AUID Seg Miles Reach Name Reach Description
04010201-643 **0.65** **St.Louis R** **Within Thompson Res, from Ditch Inl**

Not Assessed for any uses.

Location metadata is confusing, and appears that site is inappropriate for stream reach assessment.

AUID Seg Miles Reach Name Reach Description
04010201-513 **109** **2.1** **St.Louis R** **Fond du Lac dam to Mission Cr**

Aquatic life—preliminary assessment NS Final assessment FS

AQL assessment quality (Excellent, good, fair, poor) GOOD

Factors used, please describe

A. Timing of exceedances WLSSD Metals data suggesting non-support was collected before use of clean metals techniques

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed _____

G. Additional data New data for metals shows support

Aquatic recreation use—preliminary assessment FS Final assessment FS

AR assessment quality (Excellent, good, fair, poor) GOOD

Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Mercury

2002 TMDL listing (Y/N) Y Which pollutants Mercury, DDT, Dieldrin, PCB

2004 Impairment listing(Y/N) Y Which pollutants Mercury, DDT, Dieldrin, PCB

Delisting status (if applicable) _____

IAR category 5

Additional Comments: **DDT, Dieldrin, PCB standards apply only for fish consumption use, not aquatic life use.**

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010201-532 006* 4.11 St.Louis R Mission Cr to Oliver Bdrge

Aquatic life—preliminary assessment NS Final assessment FS

AQL assessment quality (Excellent, good, fair, poor) GOOD

Factors used, please describe

A. Timing of exceedances WLSSD Metals data suggesting non-support was collected before use of clean metals techniques

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed

G. Additional data There is no more recent metals data.

Aquatic recreation use—preliminary assessment FS Final assessment FS

AR assessment quality (Excellent, good, fair, poor) FAIR

Fish consumption use NS

1998 TMDL listing (Y/N) N Which pollutants _____

2002 TMDL listing (Y/N) Y Which pollutants Mercury, DDT, Dieldrin, PCB

2004 Impairment listing(Y/N) Y Which pollutants Mercury, DDT, Dieldrin, PCB

Delisting status (if applicable) _____

IAR category 5

Additional Comments _____

AUID Seg Miles Reach Name Reach Description
04010201-501 003 4.8 St.Louis Bay Pokegama R to Lk Superior

Aquatic life—preliminary assessment NS Final assessment FS

AQL assessment quality (Excellent, good, fair, poor) GOOD

Factors used, please describe:

A. Timing of exceedances WLSSD Metals data suggesting non-support was collected before use of clean metals techniques

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed

G. Additional data Newer metals data show full-support.

Aquatic recreation use—preliminary assessment PS Final assessment FS

AR assessment quality (Excellent, good, fair, poor) GOOD

Fish consumption use NS

1998 TMDL listing (Y/N) Y Which pollutants Mercury

2002 TMDL listing (Y/N) Y Which pollutants Mercury, DDT, Dieldrin, PCB, Dioxin, Toxaphene

2004 Impairment listing(Y/N) Y Which pollutants Mercury, DDT, Dieldrin, PCB, Dioxin, Toxaphene

Delisting status (if applicable) _____

IAR category 5

Additional Comments _____

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010201-530 **NA** **NA** **St.Louis R** **Mouth of St. Louis Bay at Blatnik Bridge to the
Duluth Ship Canal**

Aquatic life—preliminary assessment NS Final assessment NA

AQL assessment quality (Excellent, good, fair, poor) _____

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment NA

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NS _____

1998 TMDL listing (Y/N) N Which pollutants PCB FCA

2002 TMDL listing (Y/N) Y Which pollutants DDT, Dieldrin, Dioxin, PCB, Toxaphene, Mercury

2004 Impairment listing(Y/N) Y Which pollutants DDT, Dieldrin, Dioxin, PCB, Toxaphene, Mercury

Delisting status (if applicable) _____

IAR category 5 _____

Additional Comments _____

AUID Seg Miles Reach Name Reach Description
04010201-531 **NA** **NA** **St.Louis R** **Mouth of St. Louis Bay at Blatnik Bridge to
Superior Entry**

Aquatic life—preliminary assessment NS Final assessment NA

AQL assessment quality (Excellent, good, fair, poor) _____

Factors used, please describe

A. Timing of exceedances _____

B. Magnitude of exceedances _____

C. Seasonality of exceedances _____

D. Naturally occurring conditions _____

E. Combination of narrative and numeric standards _____

F. Known point and nonpoint influences in the watershed

G. Additional data _____

Aquatic recreation use—preliminary assessment NA Final assessment NA

AR assessment quality (Excellent, good, fair, poor) _____

Fish consumption use NS _____

1998 TMDL listing (Y/N) N Which pollutants PCB FCA

2002 TMDL listing (Y/N) Y Which pollutants DDT, Dieldrin, Dioxin, PCB, Toxaphene, Mercury

2004 Impairment listing(Y/N) Y Which pollutants DDT, Dieldrin, Dioxin, PCB, Toxaphene, Mercury

Delisting status (if applicable) _____

IAR category 5 _____

Additional Comments _____

2004 Assessments – Lake Superior Basin

Professional judgement group transparency form for assessed streams

This form does not include AUIDs that have only Mercury FCA information.

Final revision date: 12-18-03

AUID Seg Miles Reach Name Reach Description
04010301-505 **31.93** **Nemadji R** **Headwaters to MN/WI border**

Aquatic life—preliminary assessment NS Final assessment **NS** based on turbidity estimated from TSS
AQL assessment quality (Excellent, good, fair, poor) Good

Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed
G. Additional data data from Carlton County sampling was analyzed by Jesse A. and reviewed after the PJG mtg

Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment listing(Y/N) Y Which pollutants Turbidity
Delisting status (if applicable) _____
IAR category 5

Additional Comments **30/40 exceedances of NLF ecoregion criteria for TSS; 28/40 exceedances of the TSS-Turbidity relationship(11.29 mg/L to 10 NTU) developed from the No Shore streams dataset.**

AUID Seg Miles Reach Name Reach Description
04010301-503 **4.64** **Deer Cr** **Headwaters to Nemadji R**

Aquatic life—preliminary assessment NS Final assessment **NS** based on turbidity estimated from TSS
AQL assessment quality (Excellent, good, fair, poor) Good

Factors used, please describe
A. Timing of exceedances _____
B. Magnitude of exceedances _____
C. Seasonality of exceedances _____
D. Naturally occurring conditions _____
E. Combination of narrative and numeric standards _____
F. Known point and nonpoint influences in the watershed
G. Additional data data from Carlton County sampling was analyzed by Jesse A. and reviewed after the PJG mtg

Aquatic recreation use—preliminary assessment NA Final assessment NA
AR assessment quality (Excellent, good, fair, poor) _____
Fish consumption use NA
1998 TMDL listing (Y/N) N Which pollutants _____
2002 TMDL listing (Y/N) N Which pollutants _____
2004 Impairment listing(Y/N) Y Which pollutants Turbidity
Delisting status (if applicable) _____
IAR category 5

Additional Comments **40/40 exceedances of both NLF ecoregion criteria for TSS and the TSS-Turbidity relationship(11.29 mg/L to 10 NTU) developed from the No Shore streams dataset.**